

PDRPS Mission Statement...

The Product Director for Respiratory Protection Systems manages and directs all aspects concerning development, production, and initial fielding of new and major modifications and product improvements of respiratory protection products. Programs cover all technical disciplines in all phases (tech base, development, production, and sustainment) of the acquisition life cycle. The program includes interface with the other services, actively seeks joint development possibilities, and encompasses international cooperative development, to include foreign military sales.



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Respiratory
Protection Systems
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Product
Director
Respiratory
Protection
Systems

**PRODUCT DIRECTOR
RESPIRATORY
PROTECTION SYSTEMS**

Product Director Respiratory Protection Systems

Joint Service General Purpose Mask (JSGPM) XM50/XM51

Description:

- Face, eye, and respiratory protection from battlefield concentrations of CB agents, toxins, toxic industrial materials, and radioactive particulate matter



Capabilities:

- Improved protection
- Improved field-of-view
- Lower breathing resistance
- Reduced weight/bulk
- Improved compatibility

M45 Chemical-Biological Aircrew Mask

Description:

- Designed and integrated plastic components into the mask to reduce weight
- Improved vision correction
- Close-fitting eye lenses for improved field of vision
- In-turned peripheral seal
- Interchangeable nose cups for custom fit



Capabilities:

- Compatible with Aviation Systems
- Drinking Capability
- Improved Vision Correction
- Reduced Weight
- Night Vision Goggle compatibility
- Standard and tempest microphone interfaces

M41 Protection Assessment Test System (PATS)

Description:

- Military version of a commercial device - TSI's "Model 8020M Portacount Respirator Fit Tester" with the addition of an accessory kit, supplies, and a carrying case to comprise a system
- Designed to check the readiness of protective masks
- Approximately 200 cubic inches in size, and 4 pounds in weight
- It is based on a miniature Condensation Nucleus Counter (CNC) that continuously samples and counts individual particles that occur naturally in the surrounding air
- The PATS measures the concentration of these particles inside and outside the mask and calculates a Protection Factor (PF)



Capabilities:

- Verifies that the fit of the mask to the soldier's face is acceptable
- Verifies that there are no critical leaks in the mask system
- Used to help screen for unserviceable masks
- Assists in determining if preventive maintenance checks and services (PMCS) have been conducted properly on critical components
- Assists in training personnel on the proper wearing of the mask

M48 Chemical Biological Apache Aviator Mask

Description:

- Provides protection factor greater than 10,000 for 90% of personnel
- Compatible with Apache sighting systems
- Compatible with Night Vision Goggles
- Drinking capability
- Single BA-5800 battery powers the motor blower for up to 12 hours



Capabilities:

- M48 replaces all M43 Type I masks in service
- 69% weight reduction (blower and battery)
- Standard Army battery
- Improved reliability
- Universal microphone adapter
- Interpupillary Distance Staple Kit
- No aircraft modification required
- An interactive multimedia CD ROM has been developed for sustainment training covering Operation and Unit Maintenance

M40 Series Protective Masks

Description:

- Over 1.7 million produced
- Joint Service use (Army/USMC/Navy)
- Currently in use in combat hot spots
- High performance/low maintenance



Capabilities:

- Extended shelf-life
- Proven protection
- Improved comfort and vision
- Improved cold weather performance
- Accessories available
 - Laser protective outserts
 - Clip-on voice amplifier